

REMARKS/ARGUMENTS

The Applicant thanks the Examiner for allowing Claims 14-26. Claims 1 and 8 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kramer (U.S. Pat. No. 5297057). Claims 2-7 and 9-13 are objected to as being dependant upon a rejected claim. It is respectfully submitted that claims 1-13 are allowable over the art of record for the reasons set forth below.

Kramer discloses a method and apparatus for performing kinematic analyses. (Kramer at col. 4, ll. 39-40). A topological description of a linkage is input into the system along with a set of forces to be applied to the linkage (*Id.* at col. 4, ll. 46-50). This description consists of parameters such as angles and positions (*Id.* at col. 65, ll. 34-40). The system then generates a graph consisting of all the possible states or sets of states that the linkage can progress. (*Id.* at col. 4, ll. 53-55).

The present application claims a system and method for the graphical synthesis of mechanisms. Claim 1 reads in part :

A system for the graphical synthesis of mechanisms comprising:

...
a computing application residing in said computer memory and running on said computer processor, wherein said computing application receives operator input indicative of a desired construct's function from said operator input interface, and processes said operator input to extract positions and angle data from inputted desired positions of said desired construct for use to calculates mechanism solutions having the particular desired function(s) said mechanism capable of behaving in accordance with said inputted functional requirements, said computing application further calculating parameters associated with said calculated mechanism for display as graphical information on said display device for said operator to view (emphasis added).

As recited in claim 1, a computer program receives operator input indicative of a desired construct's function. The position and angle data are extracted from inputted desired positions of said desired construct. Using the extracted position and angle data, mechanism solutions capable of behaving in accordance with the inputted desired functional requirements are calculated. A graphical representation of the mechanism solutions is displayed to the operator.

In contradistinction to the claimed invention, Kramer does not teach or suggest receiving operator input in the form of a desired construct's function. Rather, in Kramer the

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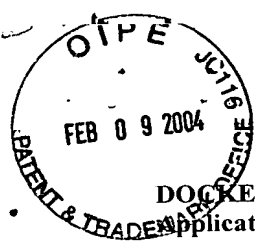
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linkages are received in the form of parameters such as angles and positions from the operator. In addition, Kramer does not teach or suggest extracting the position and angle data from the inputted desired positions of said desired construct. The operator in Kramer must first calculate the position and angle data for a given construct before applying the kinematics analysis, whereas the operator of the present invention avoids that step entirely by directly inputting the construct.

With respect to independent claim 1, Applicant respectfully submits that Kramer does not teach or suggest receiving operator input in the form of a desired construct's function or extracting position and angle data from the inputted desired positions, and that the Examiner's rejection under 35 U.S.C. § 103(a) should be withdrawn.

With respect to dependant claim 8, Applicant respectfully submits that is allowable for the same reasons as set forth above, and that the Examiner's rejection under 35 U.S.C. § 103(a) should be withdrawn.

With respect to dependant claims 2-7 and 9-13, Applicant respectfully submits that the claims are now allowable for the reason stated above and that the Examiner's objections should be withdrawn.



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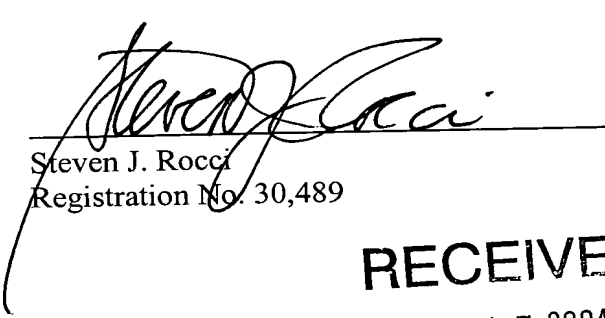
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CONCLUSION

In view of the above comments and remarks, Applicant respectfully submits that the present application is in condition for allowance. Reconsideration of the application and an early Notice of Allowance are respectfully requested.

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